

CBM POWERED BOLT - NUT ASSEMBLY R&R GENERIC

OBJECTIVE:

This procedure removes and replaces a defective CBM Powered Bolt - Nut Assembly.

LOCATION:

Installed: Passive CBM Docking Ring

Stowed: √Maintenance Database

DURATION:

TBD

PARTS:

CBM Powered Bolt - Nut Assembly (P/N 683-13503-001)

MATERIALS:

None

TOOLS REQUIRED:

Equipment Bag

Tether

Kit E:

Ratchet 3/8" Drive

Ratchet 1/4" Drive

2" Ext 1/4" Drive

Kit F:

5/16" Socket, 1/4" Drive

Kit C:

3/8" Socket, 3/8" Drive

REFERENCED PROCEDURE(S):

CBM ACTIVATION AND POWERED BOLT CHECKOUT

SAFE

WARNING

Failure to remove power can result in electrical shock hazard.

1. √CBM Controller Pwr - Off

ACCESS

2. If required, remove vestibule closeout for access by unfastening 1/4 turn fasteners.
Tm pry stow.
3. If required, remove PCBM alignment guides for access by loosening fasteners (five per alignment guide) (Ratchet 3/8" drive, 3/8" Socket).
Tm pry stow.

REMOVE

4. Loosen fasteners (two) on nut plate (Ratchet 1/4" drive, 2" Ext, 5/16" Socket).
5. Grasp end of failed nut assembly, pulling back and away from passive berthing ring.
Label, tmpy stow.

REPLACE

NOTE

Two alignment pins on nut plate and two alignment holes on inside of passive berthing ring will assist in providing proper alignment during assembly.

6. Align alignment pins (two) on nut plate with alignment holes (two) in passive berthing ring.
7. Slide assembly into alignment holes until there is metal to metal contact.
8. Tighten fasteners (two) 1/4 turn past snug (Ratchet 1/4" Drive, 2" Ext, 5/16" Socket).

CHECK-OUT

NOTE

Prior to reinstallation of alignment guide(s) or closeouts, operation of powered bolt assembly must be verified by complete engagement of powered bolt into nut assembly.

9. Perform CBM ACTIVATION AND POWERED BOLT CHECKOUT, all (SODF: OSO).

CLOSE-OUT

NOTE

There are four alignment pins on alignment guide and four alignment pin sockets on PCBM ring to aid guide installation.

10. If PCBM alignment guides were removed, replace alignment guides by rotating fasteners (five) 1/4 turn past snug (Ratchet 3/8" Drive, 3/8" Socket).
11. If vestibule closeout was removed for maintenance, install vestibule closeout by fastening 1/4 turn fasteners.

POST-MAINTENANCE

12. Stow defective power bolt nut assembly, tools, maintenance supplies.
13. Update Maintenance Database.